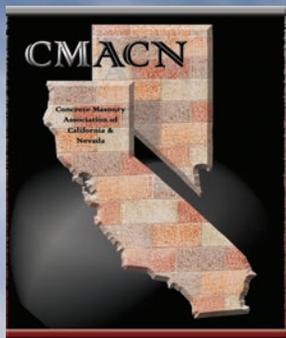


Concrete Masonry Association of California and Nevada



April 2018 Edition



Profiles in Architecture

Why Masonry?
www.whymasonry.org



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*Northern Nevada Transitional Housing: H+K Architects
Vance Fox Photography*

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Boyd Martin Construction LLC

MASONRY CONTRACTOR:

Diamond Masonry LLC

BLOCK PRODUCER:

CEMEX

OWNER:

The ELM Group, Inc.

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Linda Quackenboss, Linda Q
Photography

American Preparatory Academy

Las Vegas, Nevada



ARCHITECT'S COMMENTARY: The Las Vegas Campus for K-12 students is one of eight charter schools operated by Utah based American Preparatory Academy. The 90,000 square-foot, two-story building houses a 10,000 square-foot gym with a regulation basketball court and folding bleachers, a 2,100 square-foot multi-purpose room, media room, administrative offices and 29 classrooms. Of the 29 classrooms, 18 can be subdivided by folding partitions to total 38 classrooms.

The building's structural system consists of slab on grade, 8" split face concrete masonry units (CMUs) and a corrugated metal deck over open web steel trusses. Criteria for selecting material included durability, value and an aesthetic that is compatible with the Nevada desert environment. In addition to aesthetics, the building materials have to withstand the rigors of everyday school use and endure the extreme high desert climate.

WHY MASONRY?

Split face concrete masonry units were selected because the accompanying Type III B construction enabled contiguous building construction without expensive and inconvenient area separation walls. In addition to the fire safety benefits, the split-face CMU offered many other advantages: The tan color and rugged surface nicely complimented the ruddy Nevada landscape, and the CMU surface will hold up well to both the extreme weather and the heavy use associated with the rigorous activities within an education facility. Likewise, the irregular and porous split face surface will reflect sounds in multiple directions helping to dampen the noise generated by activities in the gym and multi-purpose room.

Concrete masonry units were also selected because of their aesthetics. CMUs are a relatively small size which allowed the creation of seamless and graceful curves, arches and colonnades within the building's form. The CMUs' tan color has a warm, natural tone that harmonizes well with the native landscaping, while its earthy roughness adds interest and texture to the wall surfaces.

Emerald STEAM Middle School

El Cajon, California

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KNA Structural Engineers
GENERAL CONTRACTOR:
Erickson-Hall Construction Co.
MASONRY CONTRACTOR:
Haxton Masonry, Inc.
BLOCK PRODUCER:
RCP Block & Brick, Inc.
OWNER:
Cajon Valley Union School District
PHOTOGRAPHY:
RMA Architectural Photography

ARCHITECT'S COMMENTARY: Emerald STEAM Middle School Multi-Purpose Room is the result of a design-build competition for Cajon Valley Union School District.

The design team was challenged to unify old with new, integrating new buildings into the heart of an existing campus while providing a connection between the graded separation of an "upper" and "lower" campus. The design emphasizes this critical North-South circulation orienting the buildings on an angled axis and creating tree-lined activity spaces along this connection pathway.

The new design makes a strong statement with a modern entrance that reinforces the Emerald STEAM branding and welcomes students to a new circulation spine through the heart of campus culminating at the multi-purpose room.

WHY MASONRY? Transparency may seem at odds with concrete masonry units (CMUs), but the dichotomy was intentional. The multi-purpose room serves as the terminus of "Emerald Way", requiring it to have a commanding presence, which CMU provides, while still being able to witness the activities inside, which large windows offer. Inside, a central hallway is flanked by exposed CMU walls that open to views of the fitness center and gym. This active space benefits from concrete masonry's durability and texture, and will withstand many years of use.

The school's unique curriculum is supported by a STEAM garden, amphitheater, fitness court, performance court, concert pavilion and outdoor classrooms. Concrete masonry units provide a subtle, but durable and textured background to these dynamic, educational spaces.



Major General William H. Gourley VA-DOD Outpatient Clinic

Marina, CA



ARCHITECT:
NMR Architects + Engineers

300 Knollcrest Dr.
Redding, CA 96002

Michael O'Connor
Principal-in-Charge

STRUCTURAL ENGINEER:
NMR Architects + Engineers

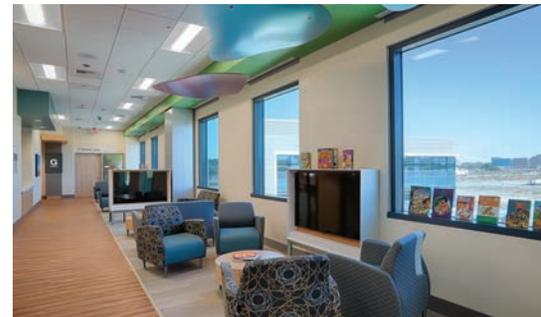
GENERAL CONTRACTOR:
Otto Construction

MASONRY CONTRACTOR:
Patania Masonry

BLOCK PRODUCER:
Calstone Company, Inc.

OWNER:
The Hamstra Group, Inc.

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Tim Maloney, Technical Imagery Studios



ARCHITECT'S COMMENTARY: As the first of its kind in the nation, the Major General William H. Gourley Outpatient Clinic serves approximately 80,000 active duty service members, veterans and their beneficiaries with primary and specialty care in Marina, CA. The building's design and campus organization offers patients easy and swift access to quality care through evidence-based medicine and ensures safety through a team oriented approach to patient care.

The 3-story, 150,000 square-foot Clinic houses a range of services including primary care, pediatric specialty clinics, eye care, podiatry, physical therapy, audiology, speech pathology and mental health, along with imaging and laboratory services. The facility is designed around the VA's Patient Aligned Care Team (PACT) delivery model which supports a veteran – centric model of care.

WHY MASONRY? The Clinic meets the Leadership in Energy and Environmental Design standard for Healthcare, and achieved LEED®-HC Gold certification. Some notable efficiency elements include:

- Reducing overall water usage by 40% compared to the average new building of its type
- Using 20% less energy than California Energy Code base line requirements
- Using sustainable and locally sourced materials for 40% of building components

The facility utilizes concrete masonry units for aesthetics, durability and enhanced physical security. The clinic showcases 4"x8"x16" ground faced veneer units with a sealer in a stacked bond pattern around the loading dock and utility rooms on the north side of the building. Ground faced 8" and 12" concrete masonry units were also used for site walls, the generator enclosure and the patient drop-off canopy columns. Grey units were selected, and the smooth, semi-gloss finish compliments the contemporary international architectural vernacular of the building. The masonry walls and columns meet or exceed the requirements for a high security blast resistance and vehicular impact mandated on many federal projects. In addition to strength, durability and finesse, the veneer components also increase energy efficiency for the facility.

Northern Nevada Transitional Housing

Reno, Nevada



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Architect of Record

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MASONRY CONTRACTOR:

A-1 Masonry & Sandblasting

BLOCK PRODUCER:

Basalite Concrete Products, LLC

OWNER:

Nevada State Public Works Division

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Vance Fox Photography

ARCHITECT'S COMMENTARY: Northern Nevada Transitional Housing is a transitional housing facility with the purpose of reintegrating inmates into society toward the end of their term of incarceration. The people occupying this facility come from all ethnicities, religions, social and economic backgrounds, so the random bands of concrete masonry units (CMUs) represent the diversity of those various walks of life. Stack bond CMU with a uniform finish was used at administrative, educational, common use areas and some dormitory areas. Design intent for these areas is to represent the organization and order expected by society. This configuration was used in some dormitory areas, but with a variety of window sizes and shapes in an attempt to demonstrate that one can be a unique individual and still abide by social norms.

WHY MASONRY?

Northern Nevada Transitional Housing incorporates areas of uniform finish stack bond concrete masonry units along with random finish bands of running bond. CMU was selected to easily create the random pattern that consists of four colors of precision faced CMU in random bands from six to forty-feet in length. Other areas of the building include stack bond concrete masonry units with a uniform finish. CMU was selected to complete the building, not only for its representational properties and colors, but also for its durability. Many reintegrating inmates will utilize this facility, and CMU will not only withstand the high traffic use, but also provide the security a transitional housing facility requires.



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SDSE

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MASONRY CONTRACTOR:
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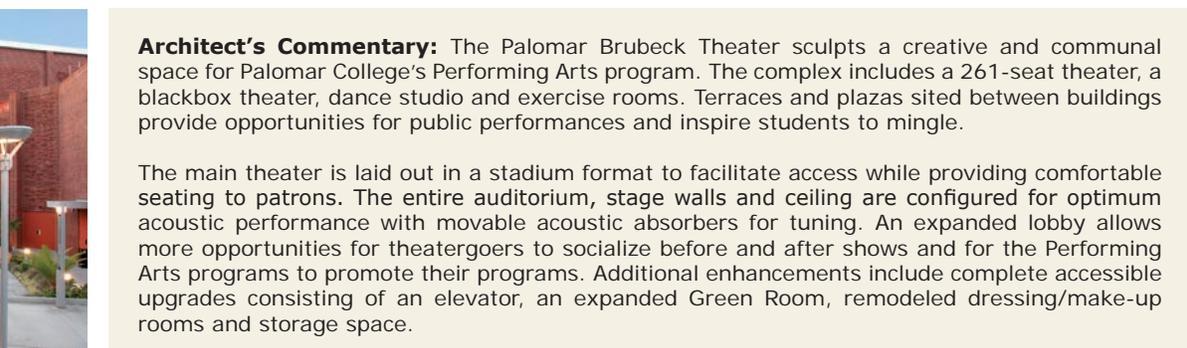
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Palomar College

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Andrew Burns Photography

Brubeck Theater Complex

San Marcos, California



Architect's Commentary: The Palomar Brubeck Theater sculpts a creative and communal space for Palomar College's Performing Arts program. The complex includes a 261-seat theater, a blackbox theater, dance studio and exercise rooms. Terraces and plazas sited between buildings provide opportunities for public performances and inspire students to mingle.

The main theater is laid out in a stadium format to facilitate access while providing comfortable seating to patrons. The entire auditorium, stage walls and ceiling are configured for optimum acoustic performance with movable acoustic absorbers for tuning. An expanded lobby allows more opportunities for theatergoers to socialize before and after shows and for the Performing Arts programs to promote their programs. Additional enhancements include complete accessible upgrades consisting of an elevator, an expanded Green Room, remodeled dressing/make-up rooms and storage space.

The blackbox theater allows for the staging of avant-garde productions and student-directed experimental performances. The dance studio is visible to the main campus promenade to spark students' interest in the performing arts program.

WHY MASONRY? Concrete masonry units (CMUs) provide durability for the demanding public college environment. Noise blocking and acoustics are of the utmost importance for a performing arts program, so CMU provides sound attenuation for the complex. Finally, CMU allows for a color and texture scheme that blends with Palomar College's campus palette.

The Brubeck Theater includes many sustainable features such as durable concrete masonry unit construction, and the adaptive reuse of a brick building shell eliminated the need to source new materials. Additionally, passive cooling with sun shades at windows, Cool Roof roofing and CMU thermal lag provide natural cooling for the complex.

Northeast Police Station

Los Angeles, California

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Englekirk Partners

GENERAL CONTRACTOR:

Bernards

MASONRY CONTRACTOR:

Masonry Concepts

BLOCK PRODUCER:

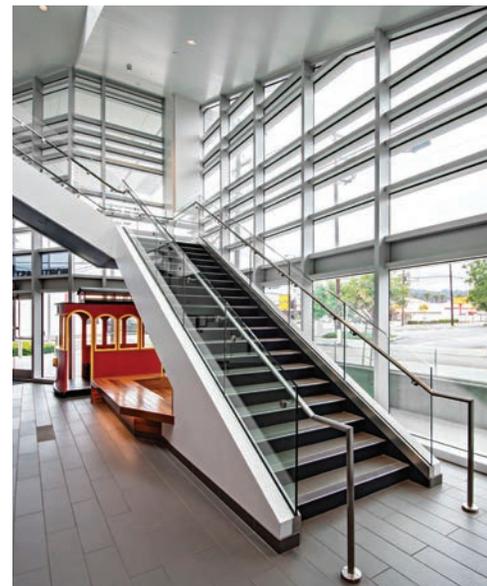
Angelus Block Company, Inc.

OWNER:

City of Los Angeles Department of
Public Works, Los Angeles Police
Department

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Michael Urbanek Photography/
ArchitecturalShots.com



ARCHITECT'S COMMENTARY: Gruen Associates and the team's overall design achieved LEED® Silver certification by incorporating high recycled-content materials, an energy-efficient envelope and LED lobby lighting to emphasize the entry as a beacon at night; a protective environment for the public.

Massing for the building examines the use of volumes to reduce the building's overall scale. A contrasting palette of silver-colored metal panels, black split-face concrete masonry units (CMUs), white-profiled CMUs and architectural concrete are used in juxtaposition to each other to emphasize the separate volumes. The building creates a hovering effect over the street along the corner of San Fernando Road and Treadwell Street, allowing planting and site wall features along the ground plane to act independent of the cantilevered volumes above.

The primary public entry to the new Northeast Police Station meets at the corner to form a large "urban porch" by a cantilevering overhang, which provides protection from both solar exposure and rain. The building provides an open gesture to the public by cutting away exterior cladding at the entry to expose a two-story transparent wall of glass. Horizontal bands of mullions create an index across the exterior that overlaps both metal panels and glass assemblies, blurring the boundaries of enclosure and openness. Portions of the building at the ground level peel away from the corner entry to create an intimate courtyard used as an outdoor extension of the public meeting room.

Circulation elements blended with a grand staircase and bench seating create a series of welcoming gestures, which extend from the building onto the public sidewalk. Textures created by CMU walls, metal panel overhangs and articulated glass assemblies blend shade and shadow across the building's exterior, highlighting horizontal layers, which visually tie the building together. Stainless-steel handrails and sandblasted precast concrete pavers provide tactile entry impressions of quality and permanence.

WHY MASONRY? As part of the exterior design, the profiled wall of concrete masonry units balances function with affordability, creating a signature building that articulates layers of ballistic protection and openness through the interplay of metal, glass and concrete masonry.



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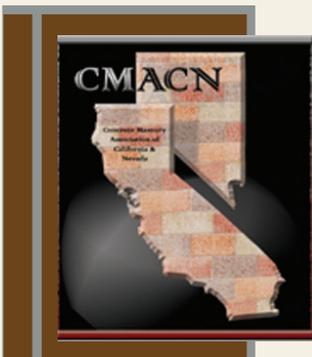
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MASONRY DESIGN AWARDS

Please view the list of 2017 CMACN/AIACC Concrete Masonry Design Awards winning projects, as well as all previous award and regular quarterly issues of "CMU Profiles in Architecture" on our website at: www.cmacn.org.

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- Providing technical information on concrete masonry for design professionals.
- Protecting and advancing the interests of the concrete masonry industry.
- Developing new and existing markets for concrete masonry products.
- Coordinating Members' efforts in solving common challenges within the masonry industry.

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